

APPLICATION

Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth of 250MHz.

This cable well exceeds the requirements of ANSI/TIA-568-C.2 and ISO/IEC 11801

CONSTRUCTION

Conductor : 23 AWG Solid bare Copper

Insulation : High Density Polyethylene

Pairs : 2 Insulated conductors twisted together

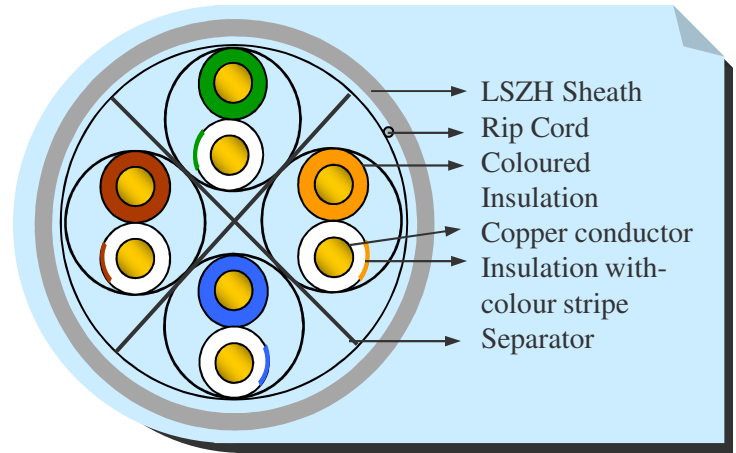
Separator : LSZH – M1

Sheath : Low Smoke Zero Halogen – M1

Cable Diameter : 7.1 ± 0.4 mm

Printing : Each meter printed with

‘STERLITE CATEGORY 6 U/UTP 4/23 AWG LSZH ANSI/TIA-568-C.2, CM1-M1 ISO/IEC 11801 Month/Year XXX M



COLOUR CODE

<u>PAIR NO</u>	<u>COLOUR</u>
1-2	White-Orange Stripe and Orange
3-6	White-Green Stripe and Green
4-5	White-Blue Stripe and Blue
7-8	White-Brown Stripe and Brown

ELECTRICAL PROPERTIES

Characteristic Impedance	: $100 \pm 15 \Omega$
Conductor Resistance	: $\leq 9.38\Omega/100m$
Mutual Capacitance	: $< 5.6nF/100m$
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: $330pF/100m$
Delay Skew	: $< 45nS$

Issued Date : 03.06.2019

Approved and Issued By

Head Development

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CONTACT

Works: Survey No. 33/1/1, Wagdhara Road, Dadra Union Territory of Dadra & Nagar Haveli Silvassa-396230 INDIA

Website : www.sterlitetechnologies.com



TRANSMISSION CHARACTERISTICS PER 90 M

Frequency (MHz)	Insertion Loss Max.(dB)	NEXT (dB) Min.	ACR-N (dB) Min.	RL (dB) Min.	PS NEXT (dB) Min.	PS ACR-N (dB) Min.	ACR-F (dB) Min.	PS ACR-F (dB) Min.
1	1.9	65	62	19.1	62	59	64.2	61.2
4	3.5	64.1	60.6	21	61.8	58.3	52.1	49.1
8	5	59.4	54.4	21	57	52.1	46.1	43.1
10	5.5	57.8	52.3	21	55.5	49.9	44.2	41.2
16	7	54.6	47.6	20	52.2	45.2	40.1	37.1
20	7.9	53.1	45.2	19.5	50.7	42.8	38.2	35.2
25	8.9	51.5	42.7	19	49.1	40.2	36.2	33.2
31.25	10	50	40	18.5	47.5	37.6	34.3	31.3
62.5	14.4	45.1	30.8	16	42.7	28.3	28.3	25.3
100	18.6	41.8	23.3	14	39.3	20.7	24.2	21.2
200	27.4	36.9	9.6	11	34.3	7	18.2	15.2
250	31.1	35.3	4.2	10	32.7	1.6	16.2	13.2

MECHANICAL PROPERTIES

Bending Radius : : < 4 X Cable Diameter (mm) at -20°C ± 1°C
Pulling Force : 11.5Kgs
Temperature Range
Installation : 0° to + 50°C
Operation : -20° to +70°C

FLAME PROPERTIES

Flammability Test – IEC 60332-1
Acid Gas Emission Test – IEC 60754-1
Smoke Density Test – ASTM 2843
Flame requirements meet the Euro Class Cca,s1a,d2,a1

CONNECTION SYSTEM

Compatible with all common systems according to ANSI/TIA-568-C.2 and ISO/IEC 11801

AVAILABLE CABLE COLOR

Light Grey – RAL 7035
Or as per Customer Request

PACKING

Available in Multiple length
Or As per Customer Request

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